

Docket No. 240502US90



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Masahiro NAWA, et al.

SERIAL NO: 10/621,385

GAU: 1755

FILED: July 18, 2003

EXAMINER: SAMPLE, D.R.

FOR: ZRO2-AL2O3 COMPOSITE CERAMIC MATERIAL AND PRODUCTION METHOD THEREOF

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references cited on the attached European Search Report and listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☒ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☒ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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SHEET 1 OF 1

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
240502US90SERIAL NO.  
10/621,385

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Masahiro NAWA, et al.

FILING DATE

July 18, 2003

GROUP

1755

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|------|------|-------|--------------|-------------------------------|
|                     | AA |                    |      |      |       |              |                               |
|                     | AB |                    |      |      |       |              |                               |
|                     | AC |                    |      |      |       |              |                               |
|                     | AD |                    |      |      |       |              |                               |
|                     | AE |                    |      |      |       |              |                               |
|                     | AF |                    |      |      |       |              |                               |
|                     | AG |                    |      |      |       |              |                               |
|                     | AH |                    |      |      |       |              |                               |
|                     | AI |                    |      |      |       |              |                               |
|                     | AJ |                    |      |      |       |              |                               |
|                     | AK |                    |      |      |       |              |                               |
|                     | AL |                    |      |      |       |              |                               |
|                     | AM |                    |      |      |       |              |                               |
|                     | AN |                    |      |      |       |              |                               |

## FOREIGN PATENT DOCUMENTS

|  |    | DOCUMENT<br>NUMBER | DATE       | COUNTRY  | TRANSLATION |    |
|--|----|--------------------|------------|----------|-------------|----|
|  |    |                    |            |          | YES         | NO |
|  | AO | EP 0 834 484 A1    | 04/08/1998 | European |             |    |
|  | AP |                    |            |          |             |    |
|  | AQ |                    |            |          |             |    |
|  | AR |                    |            |          |             |    |
|  | AS |                    |            |          |             |    |
|  | AT |                    |            |          |             |    |
|  | AU |                    |            |          |             |    |
|  | AV |                    |            |          |             |    |

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

|  |    |  |  |  |  |  |
|--|----|--|--|--|--|--|
|  | AW | M. NAWA, et al., "Development of Tough and Strong Ceria Stabilized Tetragonal Zirconia Nanocomposite and Its Application", Matsushita Electrical Works Technical Report, no. 71, pp. 77-83 (August 2000)             |  |  |  |  |
|  | AX | D.H. SHIM, et al., "Microstructure and mechanical properties of A1203/t-ZrO2 particulate composites", Chemical Abstracts Service, XP002345199, AN 132:67911 (2000)   |  |  |  |  |
|  | AY | V.V. MISHRA, et al., "Effect of cerium zirconate (Ce <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> ) on microstructure and mechanical properties of Ce-ZTA", Journal of Materials Science, vol. 37, pp. 197-202 (2002) |  |  |  |  |
|  | AZ |  |  |  | <input type="checkbox"/> Additional References sheet(s) attached |  |

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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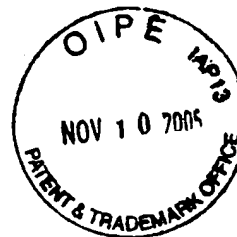
In the matter of the Application of: Masahiro NAWA, et al.

For: ZRO2-AL2O3 COMPOSITE CERAMIC MATERIAL AND PRODUCTION METHOD THEREOF

Due Date: 11-17-05

The following has been received in the U.S. Patent Office on the date stamped here:

- ☐ Credit Card Form for \$180.00
- ☐ Dep. Acct. Order Form
- ☐ Information Disclosure Statement
- ☐ European Search Report
- ☐ PTO-1449
- ☐ Cited References 4



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